

AUG 03 2009

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

Amendments to the Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1-31. (canceled).

32. (currently amended) A contents service providing system, the system comprising:

an analyzing unit for analyzing conditions of a usage environment of a user terminal based on package metadata and determining contents matched with the conditions; and

a providing unit for providing the determined contents to the user terminal, wherein the package metadata includes component metadata for describing attributes of the contents, relation metadata for describing temporal/spatial relation of the contents, and targeting condition metadata for describing the conditions, and

wherein the ~~package metadata~~ targeting condition metadata is capable of matching targeting the contents to the user terminal and the relation metadata enables to consuming consume a variety of contents with the temporal/spatial relation in the user terminal.

33. (previously presented) The system as recited in claim 32, wherein the component metadata include:

image attribute metadata for describing image attributes of an image contents;
video attribute metadata for describing video attributes of a video contents; and

AUG 03 2009

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

audio attribute metadata for describing audio attributes of an audio contents.

34. **(previously presented)** The system as recited in claim 33, wherein the image attributes include a vertical/horizontal size.
35. **(previously presented)** The system as recited in claim 33, wherein the video attributes include a coding format, and a vertical/horizontal size.
36. **(previously presented)** The system as recited in claim 33, wherein the audio attributes include a coding format, and channel information.
37. **(previously presented)** The system as recited in claim 33, wherein the component metadata includes media-related attributes having a file size.
38. **(previously presented)** The system as recited in claim 33, wherein the component metadata includes contents description metadata having a title, descriptive information (synopsis), and keywords of the contents.
39. **(previously presented)** The system as recited in claim 33, wherein the component metadata includes application program attributes metadata having application program classification information of an application program.
40. **(previously presented)** The system as recited in claim 32, wherein the relation

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

metadata include:

temporal relation information for describing a temporal sequence of contents
consumption; and

spatial relation information for describing relative locations of the contents
consumption.

41. **(previously presented)** The system as recited in claim 40, wherein the
temporal relation information includes MPEG-7 MDS TemporalRelation CS information.

42. **(previously presented)** The system as recited in claim 40, wherein the spatial
relation information includes MPEG-7 MDS BaseRelation CS information.

43. **(previously presented)** The system as recited in claim 40, wherein the spatial
relation information includes MPEG-7 MDS SpatialRelation CS information.

44. **(previously presented)** The system as recited in claim 32, wherein the
targeting condition metadata include:

user condition information for describing user conditions of the user terminal;
terminal condition information for describing terminal conditions of the user
terminal;

network condition information for describing network conditions connected with
the user terminal; and

natural environment information for describing natural environment conditions for

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

consuming the contents in the user terminal.

45. **(previously presented)** The system as recited in claim 44, wherein the user condition information includes user information and visual/auditory difficulty information.

46. **(previously presented)** The system as recited in claim 44, wherein the terminal condition information includes codec information and device attributes information.

47. **(previously presented)** The system as recited in claim 44, wherein the network condition information includes network capability information.

48. **(previously presented)** The system as recited in claim 44, wherein the natural environment information includes location information and time information of the contents consumption.

49. **(previously presented)** The system as recited in claim 32, wherein the package metadata includes reference information including identification information for describing locations of the contents.

50. **(currently amended)** Package metadata ~~on~~ having a computer readable medium with computer readable program stored thereon, the package metadata comprising:

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

component metadata for describing attributes of contents;
relation metadata for describing the temporal/spatial relation of the contents; and
targeting condition metadata for describing conditions of a usage environment of the user terminal,

wherein the package metadata is used for analyzing the conditions of a usage environment of a user terminal to determine the contents matched with the conditions,

wherein the targeting condition metadata ~~package metadata~~ is capable of targeting matching the contents to the user terminal and the relation metadata enables to consuming consume a variety of contents with the temporal/spatial relation in the user terminal.

51. **(previously presented)** The system as recited in claim 50, wherein the component metadata include:

image attribute metadata for describing image attributes of an image contents;
video attribute metadata for describing video attributes of a video contents; and
audio attribute metadata for describing audio attributes of an audio contents.

52. **(previously presented)** The Package metadata as recited in claim 51, wherein the image attributes include a vertical/horizontal size.

53. **(previously presented)** The Package metadata as recited in claim 51, wherein the video attributes include a coding format, and a vertical/horizontal size.

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

54. **(previously presented)** The Package metadata as recited in claim 51, wherein the audio attributes include a coding format, and channel information.

55. **(previously presented)** The Package metadata as recited in claim 51, wherein the component metadata includes media-related attributes having a file size.

56. **(previously presented)** The Package metadata as recited in claim 51, wherein the component metadata includes contents description metadata having a title, descriptive information (synopsis), and keywords of the contents.

57. **(previously presented)** The Package metadata as recited in claim 51, wherein the component metadata includes application program attributes metadata having application program classification information of an application program.

58. **(previously presented)** The Package metadata as recited in claim 50, wherein the relation metadata include:

temporal relation information for describing a temporal sequence of contents consumption; and

spatial relation information for describing relative locations of the contents consumption.

59. **(previously presented)** The Package metadata as recited in claim 58, wherein the temporal relation information includes MPEG-7 MDS TemporalRelation CS

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

information.

60. **(previously presented)** The Package metadata as recited in claim 58, wherein the spatial relation information includes MPEG-7 MDS BaseRelation CS information.

61. **(previously presented)** The Package metadata as recited in claim 58, wherein the spatial relation information includes MPEG-7 MDS SpatialRelation CS information.

62. **(previously presented)** The Package metadata as recited in claim 50, wherein the targeting condition metadata include:

user condition information for describing user conditions of the user terminal;

terminal condition information for describing terminal conditions of the user terminal;

network condition information for describing network conditions connected with the user terminal; and

natural environment information for describing natural environment conditions for consuming the contents in the user terminal.

63. **(previously presented)** The Package metadata as recited in claim 62, wherein the user condition information includes user information and visual/auditory difficulty information.

64. **(previously presented)** The Package metadata as recited in claim 62, wherein

Application Serial No. 10/573,536
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4748

the terminal condition information includes codec information and device attributes information.

65. **(previously presented)** The Package metadata as recited in claim 62, wherein the network condition information includes network capability information.

66. **(previously presented)** The Package metadata as recited in claim 62, wherein the natural environment information includes location information and time information of the contents consumption.

67. **(previously presented)** The Package metadata as recited in claim 50, wherein the package metadata includes reference information including identification information for describing locations of the contents.